

Title: DIAGNOSING PREDISPOSITION TO FAT
DEPOSITION AND ASSOCIATED CONDITIONS
First Inventor: Gail Isabel Reid ADAM
Docket No.: 524592003100
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3121	tctctactaa	aaatacaaaa	aaaaaaatta	accgggcgtg	gtggtgggtg	cctgtagttc
3181	cagctacttg	ggaggctgag	gcaggagaat	ggcatgaacc	tgggaggcag	agcttgaggt
3241	gagccaagat	cgcgccattg	cactccagcc	taggcaacag	agcaagactc	cgtctcaaaa
3301	aataatata	aataaataga	tatgtgatgt	gacaggtttt	tttttgagat	ggagttttgc
3361	tcttgttccc	taggctggag	tgcaatggcg	tgatctcagc	tcaccgcaac	ctccgcctcc
3421	agggttcaag	ccattctcct	gcctcggcct	ccggagtagc	tgggattaca	ggcataagcc
3481	accatgcctg	gctaattttg	tgttttatgt	agagacaggg	ttattccatg	ttggtcaggc
3541	tggtctcgaa	ctctccacct	caggtgatct	gccagcctca	gcctcccaaa	gtgctgggat
3601	tacaggcatg	agccaccgtg	cctggcctct	gatatgacag	ttctaattgcc	cttttagtatt

FIGURE 1A

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3781 tggagcccta ttttgtcatt tgccaactgt gtgaccttgg gcaagttacc gcaactctct
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7201 tatctcagct gtccctccca ctttcagggt gctgccagac acatgacaac tgctaYgacc
7261 aggccaagaa gctggacagc tgtaaatttc tgctggacaM Mccgtacacc cacacctatt

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FIGURE 1B

7321 *catactcRtg* *ctctggctcg* *gcaatcacct* *gtagcagtag* *gtttatccct* *tccttgacct*
7381 *atgaattcta* *gttggttctc* *agtaggccgg* *ggggaaataa* *tagtaacaac* *agccatgatt*
7441 *tagtgtaaat* *tttcttggtt* *ctgggcagtg* *tctcctttaa* *tcctcagaac* *aacactatgg*
7501 *gataggtaca* *attatcctca* *cttaacagat* *aagaaaactg* *aggctcagaa* *ggctgagcta*
7561 *tttgcccaag* *atcacacagc* *ttgtaagtgg* *tgacagtttg* *ggtttttttt* *tgttgttgtt*
7621 *tagagacagg* *gtcttgctct* *gtcaccagg* *catgagcaca* *gtgggtgcaac* *cataggtcac*
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10681 *accaggactg* *tgtgtccata* *aatcctcttg* *acagccctgt* *gaggtatttg* *cgctattagc*
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FIGURE 1C

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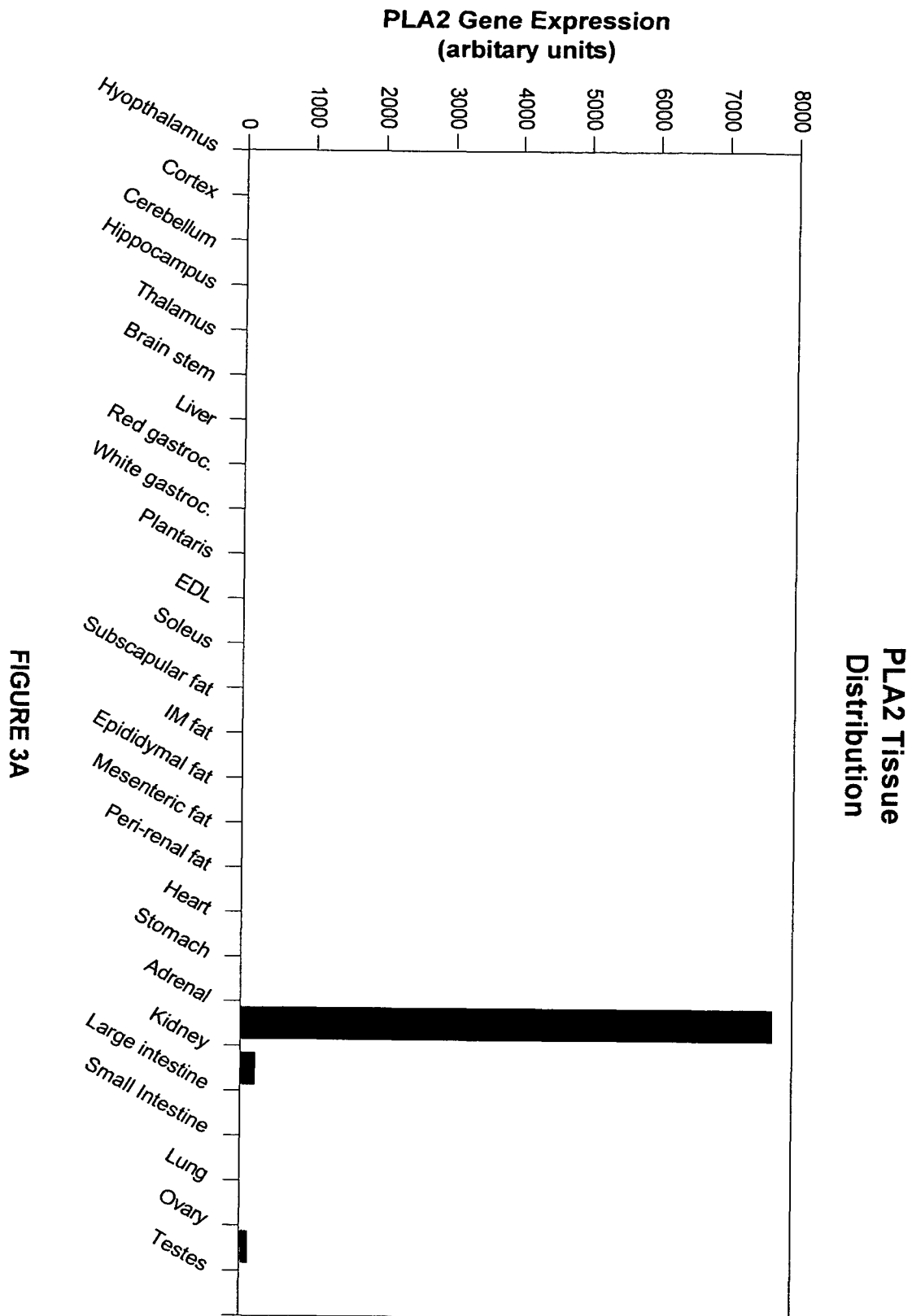
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11881 gatttgcca ggtctgtctg gtggcagtgc ccaagctttt aaccactaag tcacttcagc
11941 ccaattcctc tatgagtatt tatgactaca ttacattga aattcaccag aactaagcca
12001 gggacagtgg ctacgcctg taatcccagg actttgagaa gtctaggtgg gcagatcact
12061 tgaggccagg agtttgagac cagcctggcc aacatggcaa aaccctgtct ctactaaaaa
12121 atacaaaaat tagccgagta tggtggcata ggctgtaat cccaactact cagg

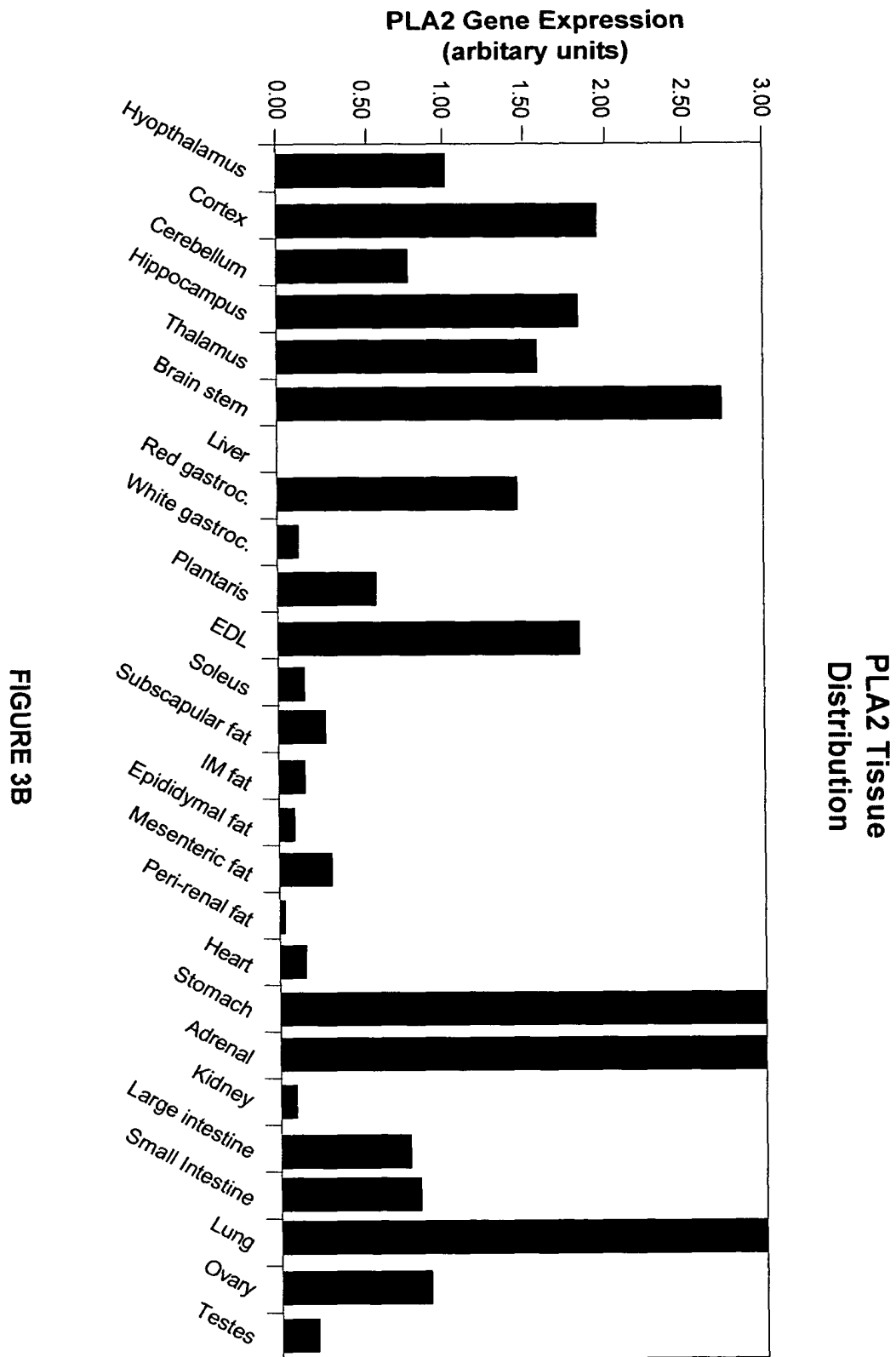
```

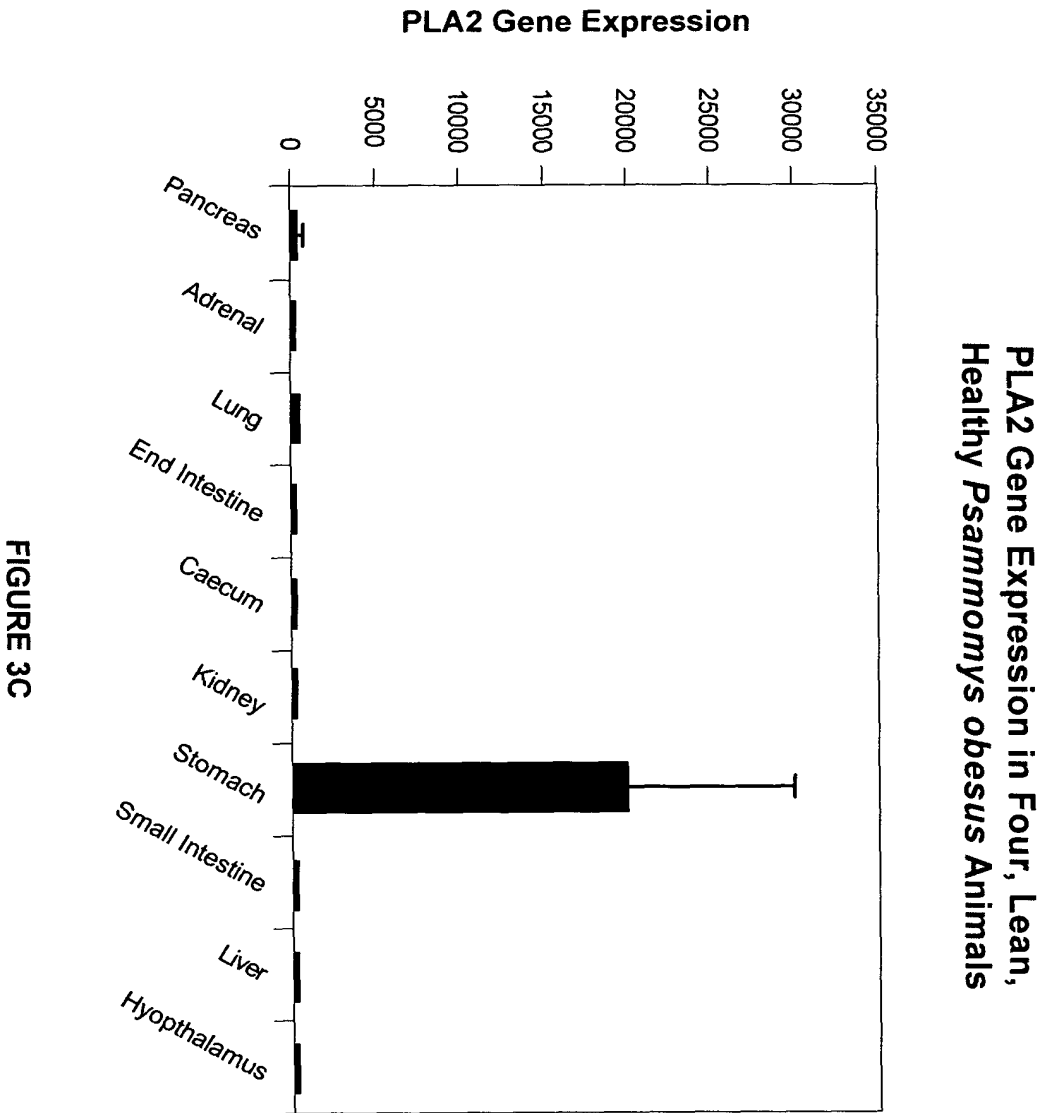
FIGURE 1D

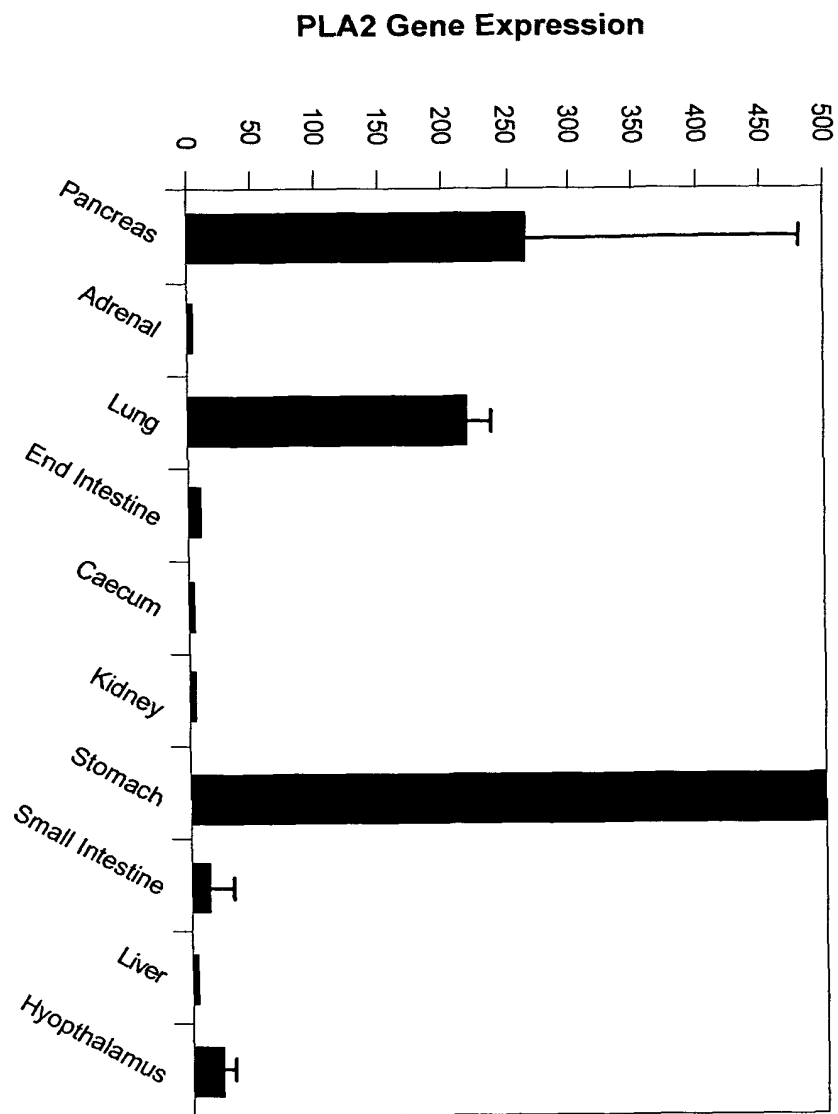
MKLLVLAVLLTVAAADSGISPRVWQFRKMIKCVIPGSDPFLEYNNYGCYCGLGGSGTPVDELDKCCQTHDNCYDQAKKL
DSCKFLLDNPYTHYTYSYSCSGSAITCSSKNKECEAFICNCDRNAAICFSKAPYNKAHKNL DTKKYCQS

FIGURE 2









PLA2 Gene Expression in Four, Lean,
Healthy *Psammomys obesus* Animals

FIGURE 3D

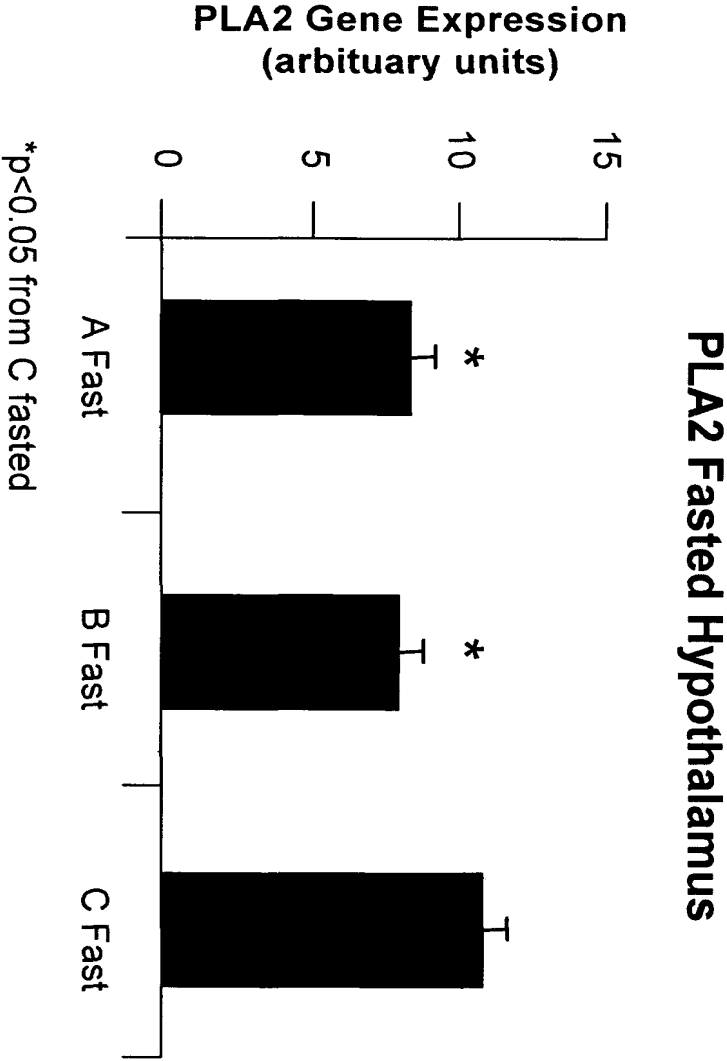


FIGURE 4A

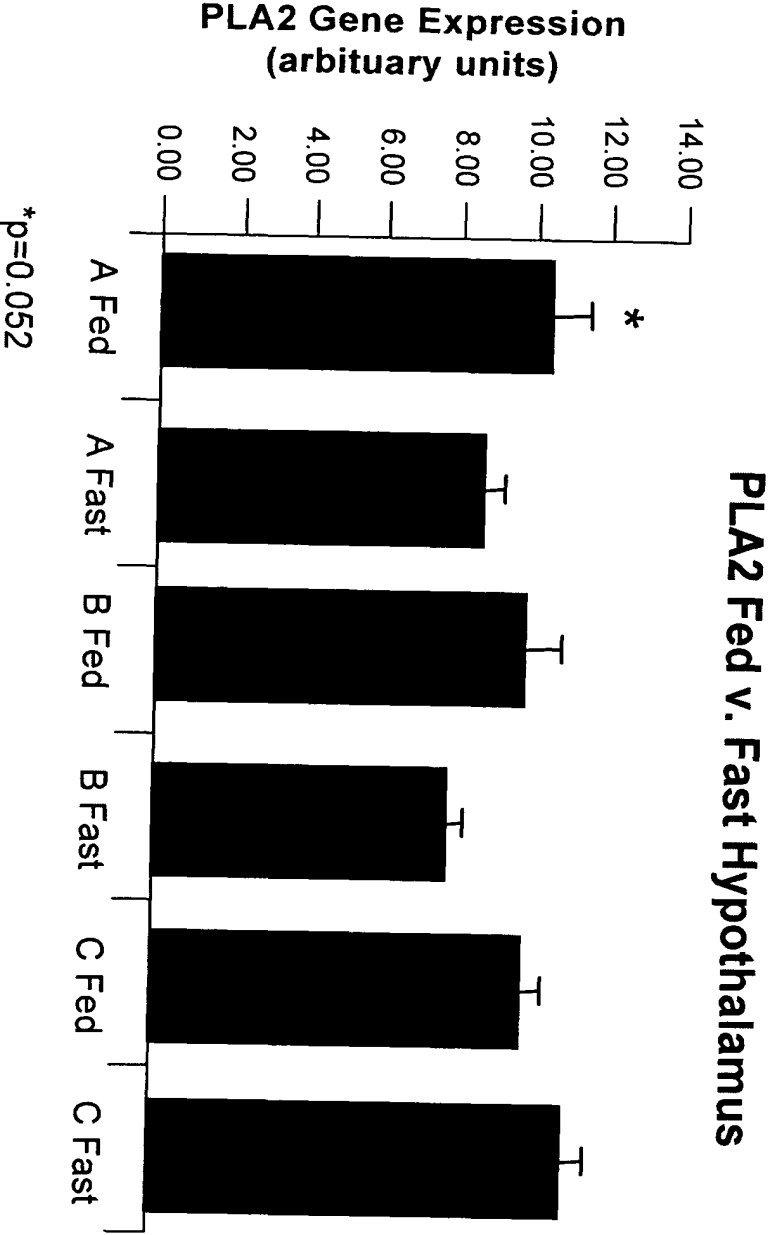


FIGURE 4B

PLA2 v BW (Fasted animals)

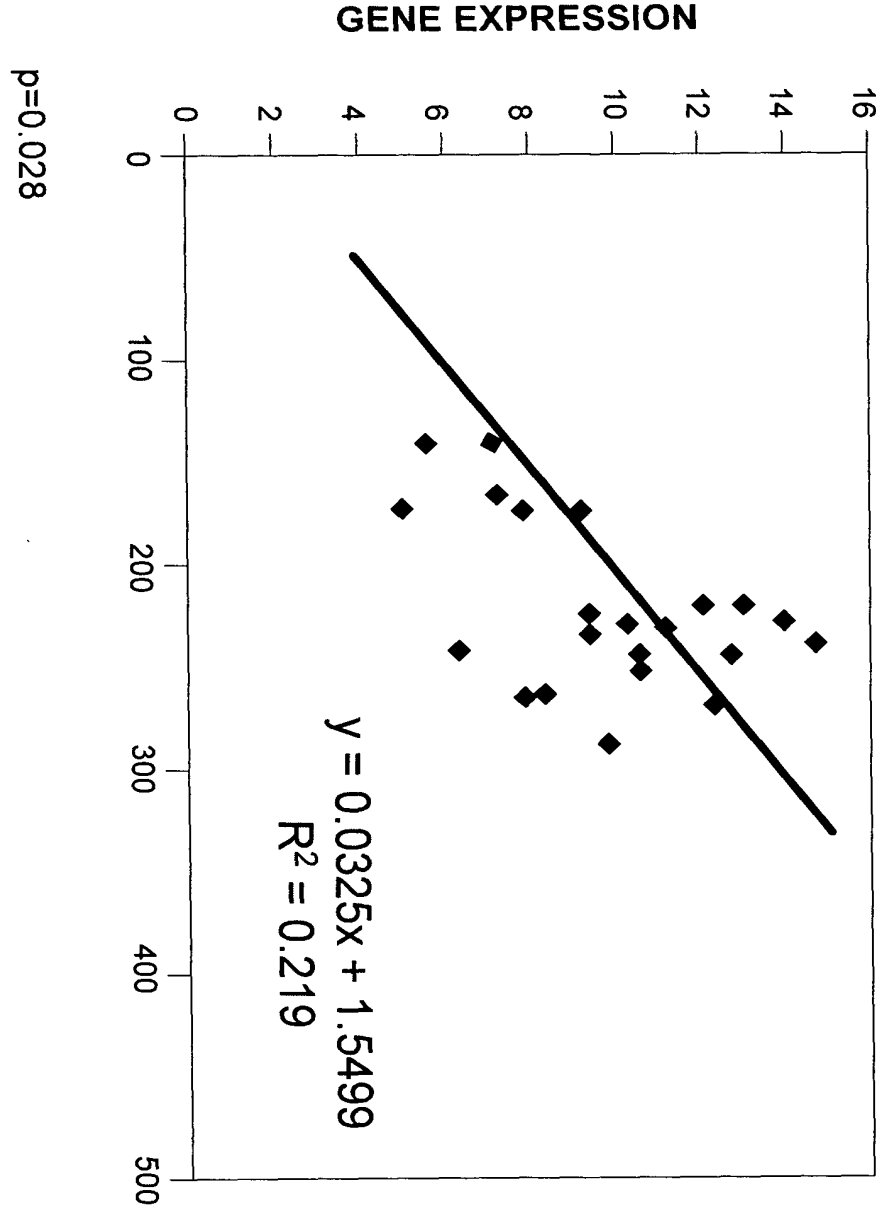


FIGURE 4C

PLA2 v Insulin (Fasted animals)

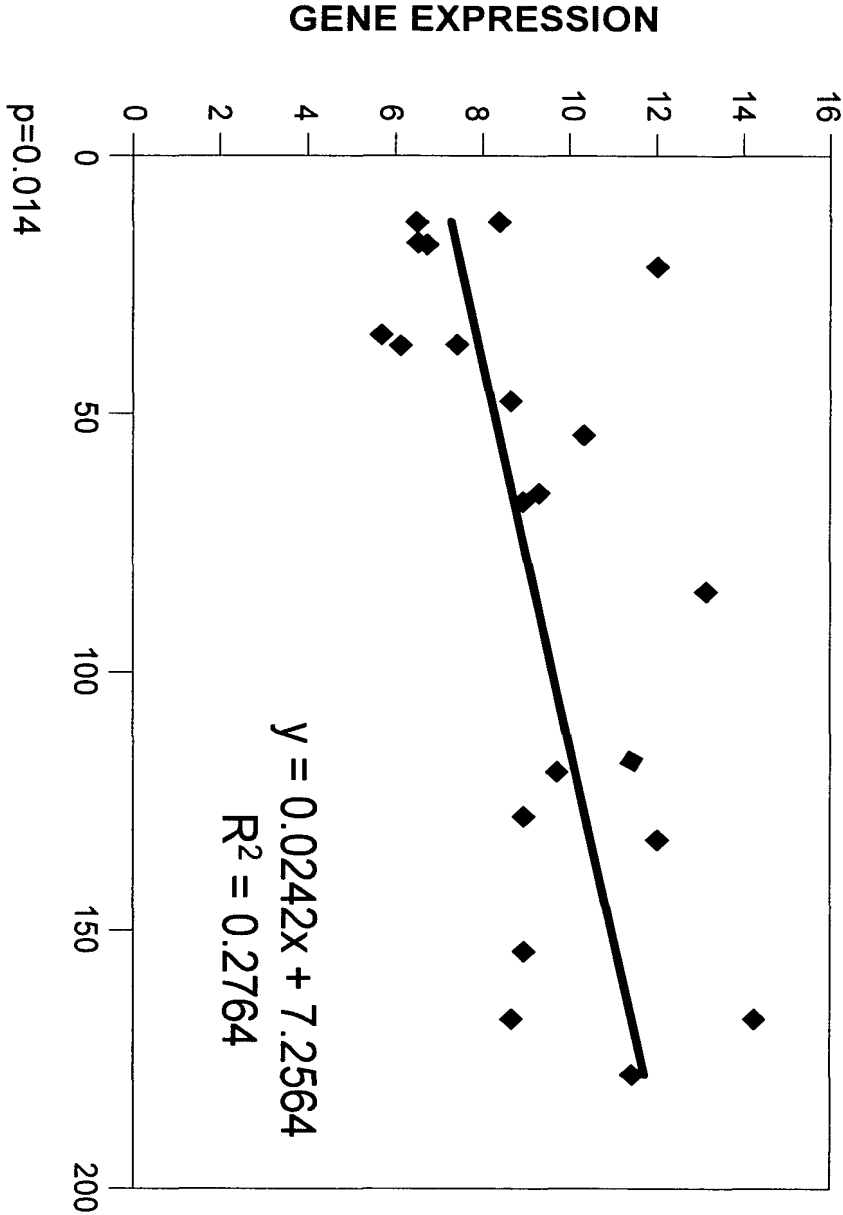


FIGURE 4D

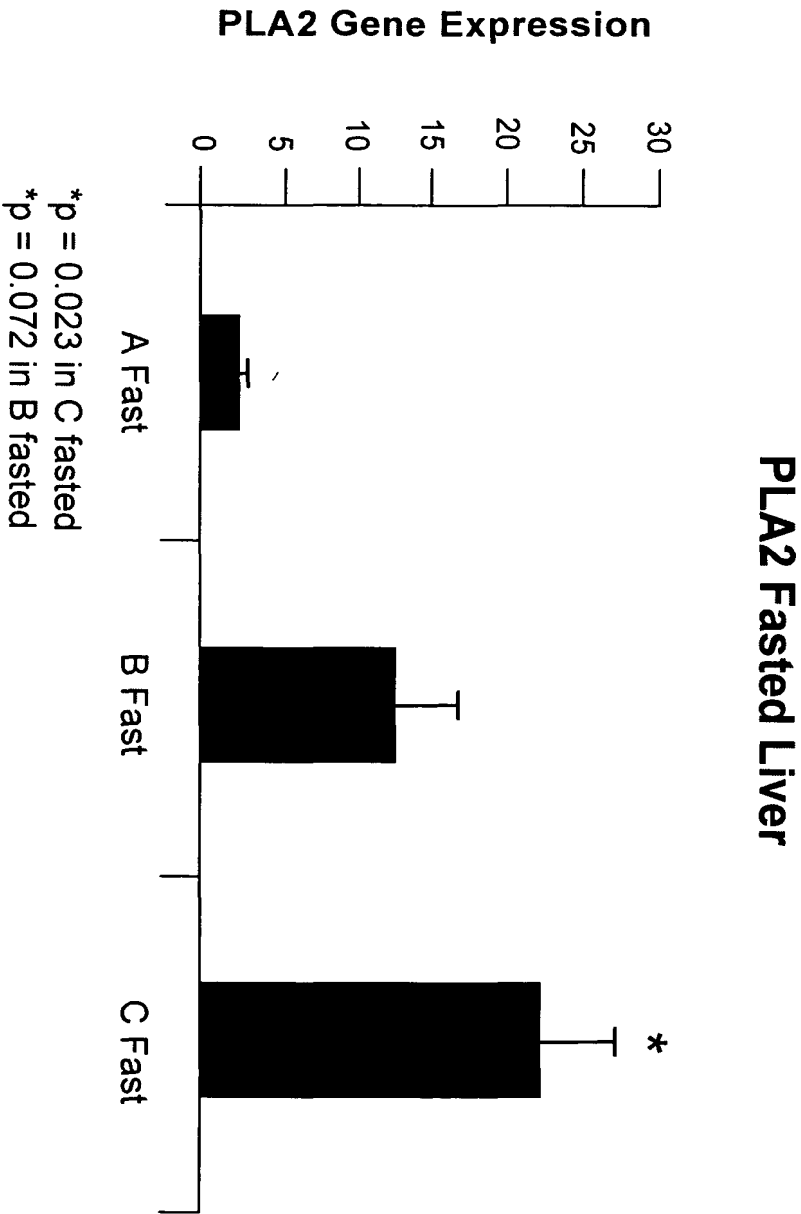


FIGURE 4E

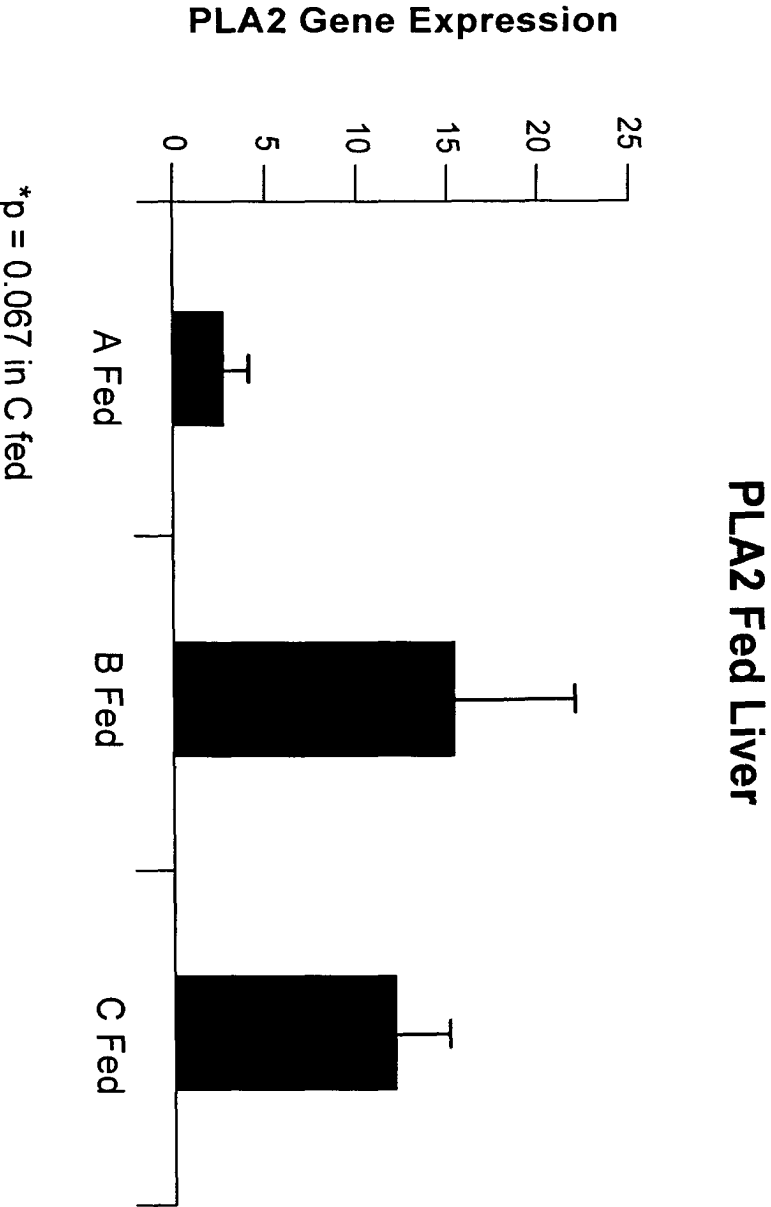


FIGURE 4F

PLA2 v Weight - Fasted animals

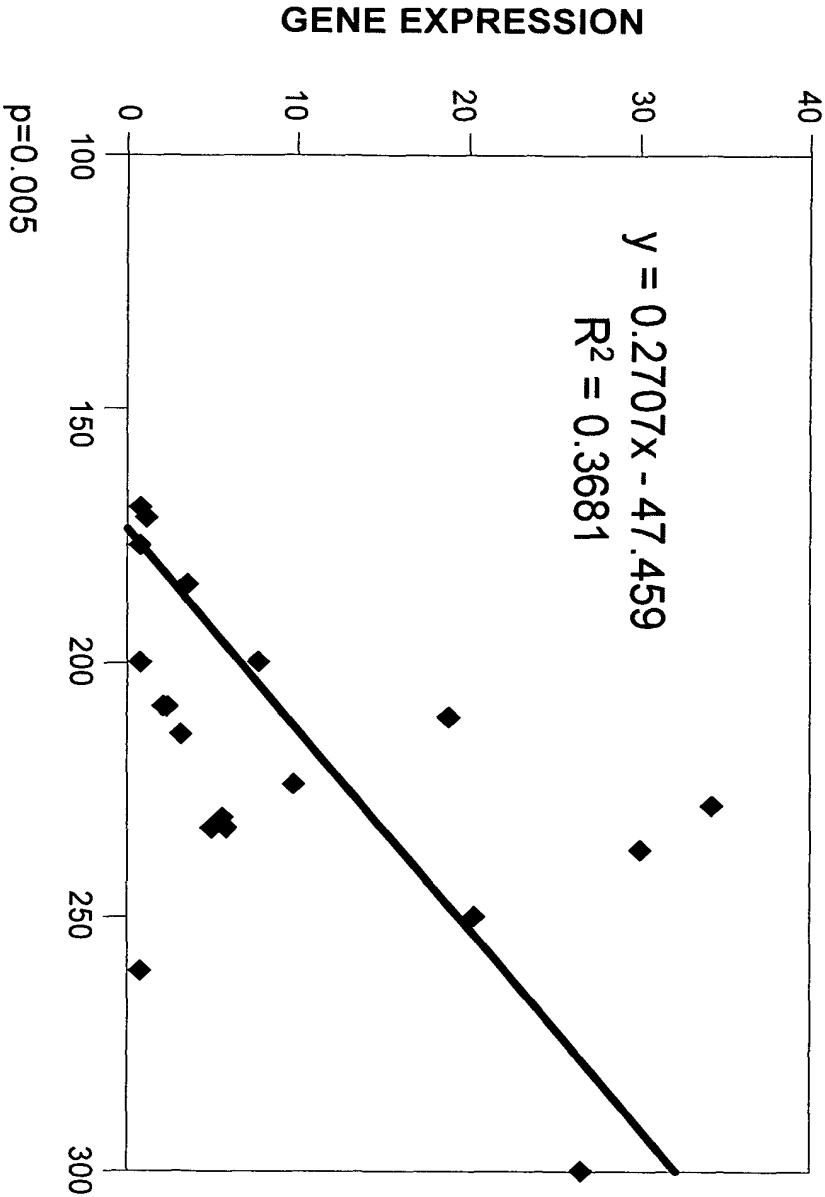


FIGURE 4G

FIGURE 4H

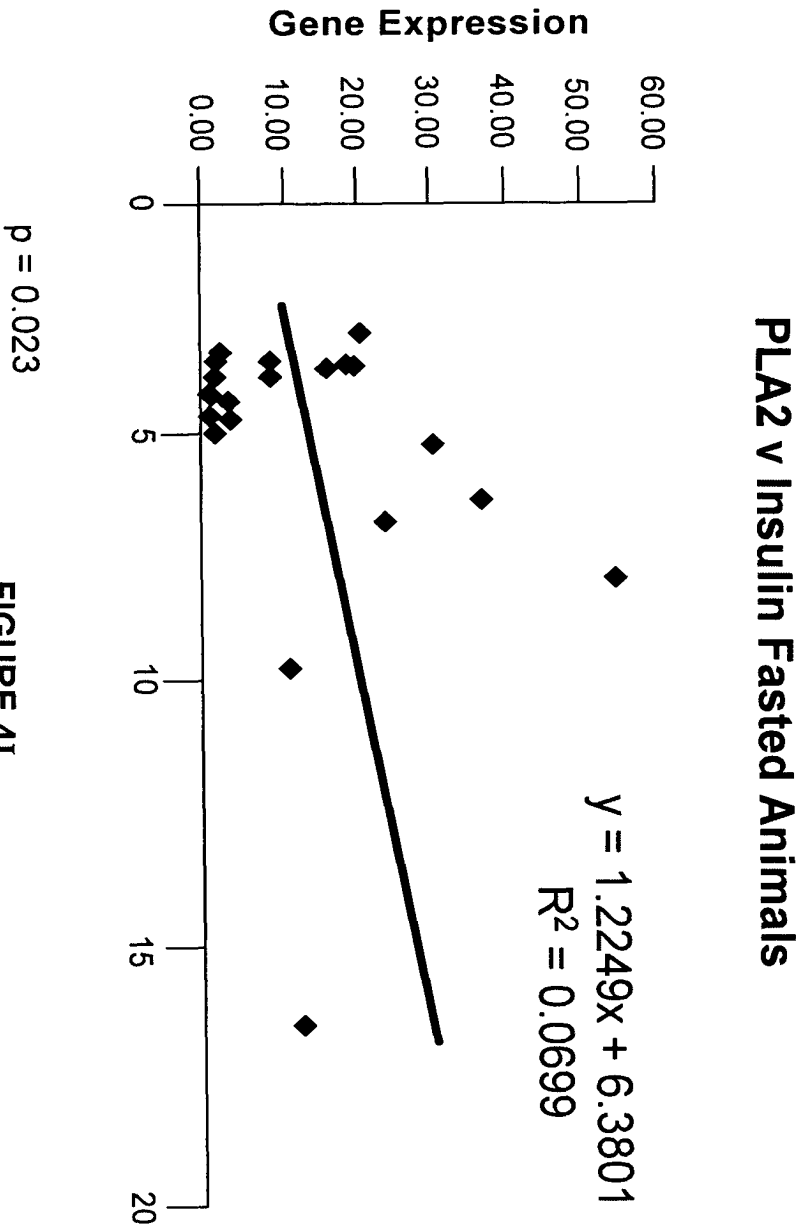


FIGURE 4I

PLA2 v Weight - Fed Animals

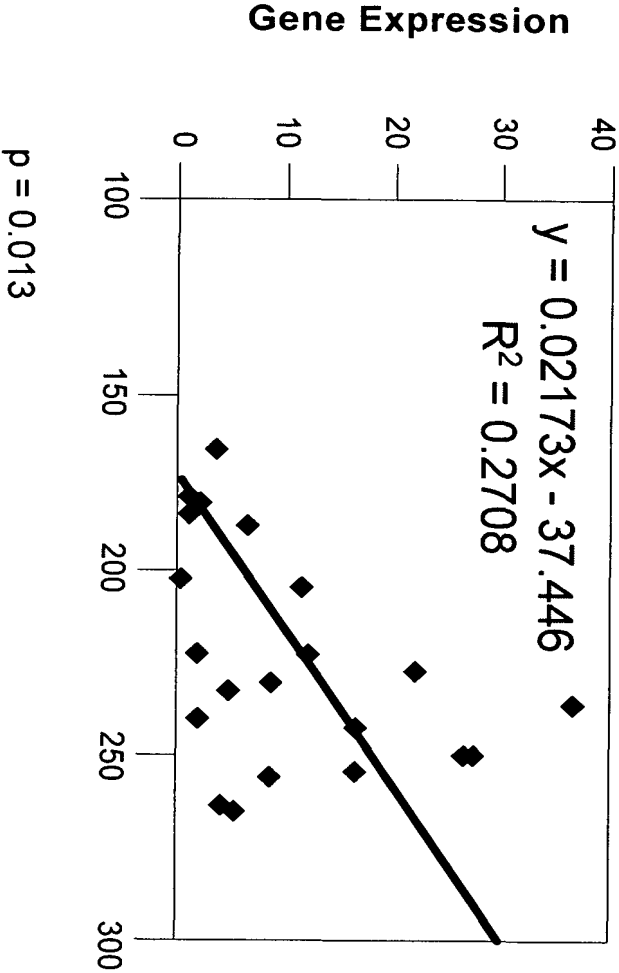


FIGURE 4J

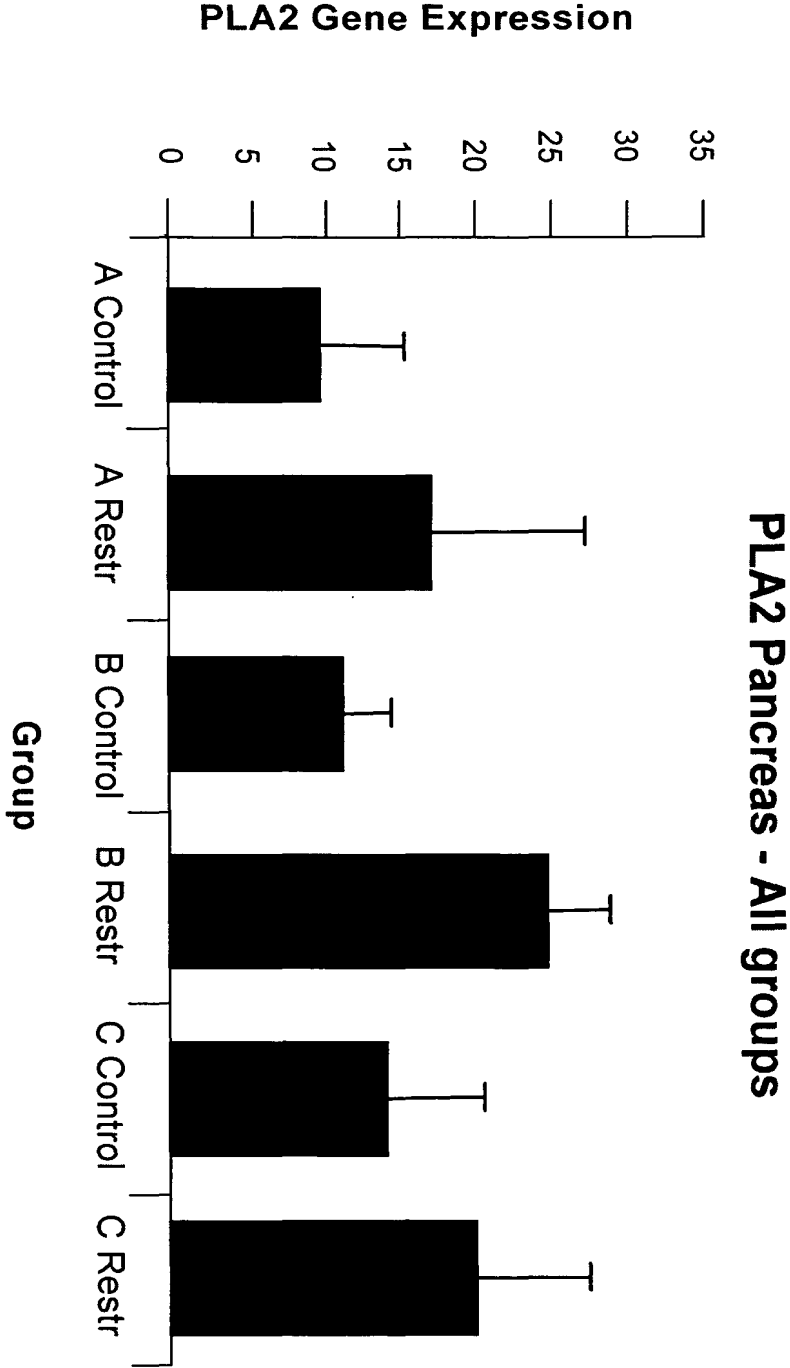
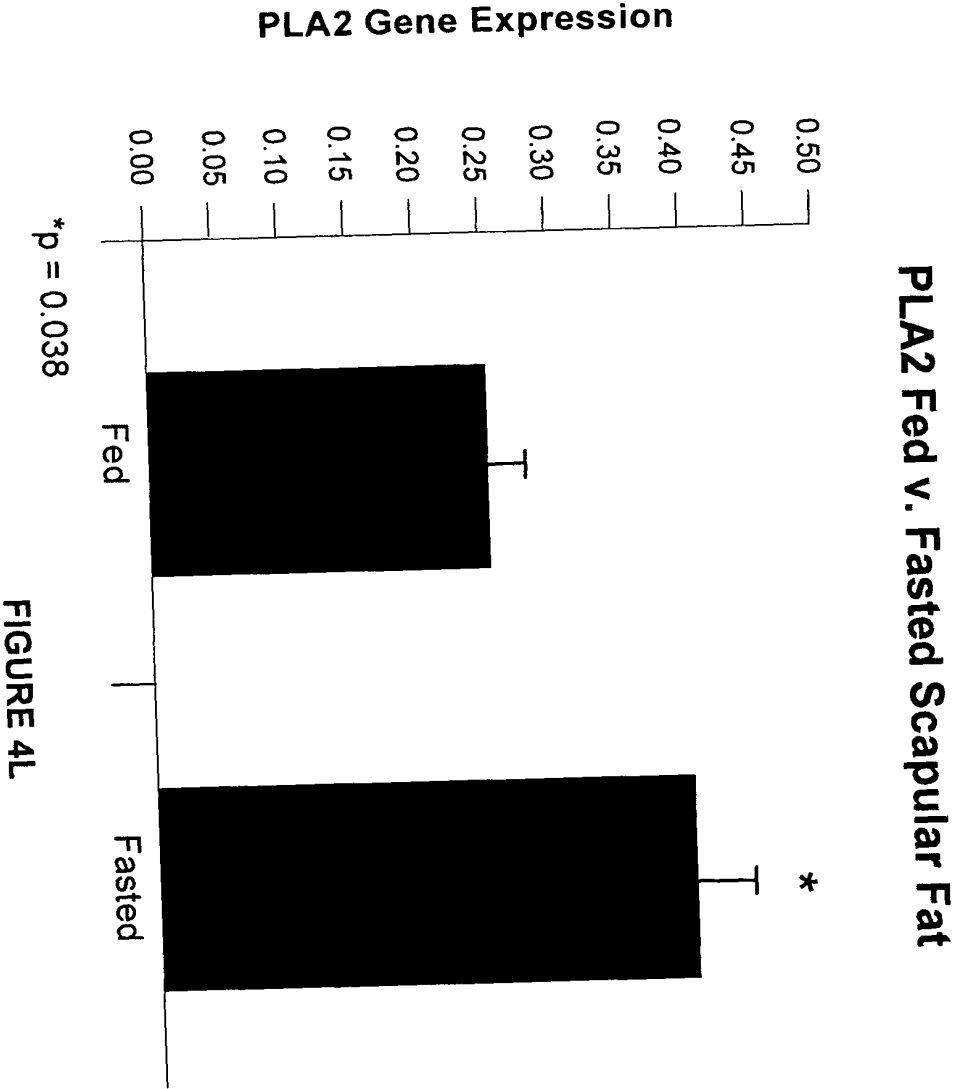


FIGURE 4K



Human	TGGTCATCTCAGTTTCTTTTCTCACCTTGACTGCAAGATGAAACTCCTTGTGCTAGCTGT	60
Mouse	-----CTCCCCTCACTCCTTCTGAAGATGAAACTCCTTCTGCTGGCTGC	44
Rat	-----CCCTCGCCAAGATGAAACTCCTTCTGCTGGCTGC	34
Psammomys	-----	
Human	GCTGCTCACAGTGGCCGCCGCCGACAGCGGCATCAGCCCTCGGGCCGTGTGGCAGTTCCG	120
Mouse	TCTGCTCACAGCAGGCGCTGCTGCACACAGCATCAGCCCTCGGGCTGTGTGGCAGTTCCG	104
Rat	TTTGCTCACAGCAGGCGTTACTGCACACAGCATCAGCACTCGGGCTGTGTGGCAGTTCCG	94
Psammomys	-----TGTTCCG	7

Human	CAAAATGATCAAGTGCCTGATCCCGGGGAGTGACCCCTTCTTGAATACAACAACACTACGG	180
Mouse	CAATATGATCAAGTGCACCATCCCCGGGAGTGATCCCCTGAAGGATTACAACAACACTATGG	164
Rat	CAATATGATCAAGTGCACCATCCCCGGGAGTGATCCCCTGAGGGAGTACAACAACACTACGG	154
Psammomys	CAATATGATCAAGTGCGCCATCCCCGGAAGTAAGCCCCTGAAGGAGTACAACAACACTACGG	67
	*** *****	
Human	CTGCTACTGTGGCTTGGGGGGCTCAGGCACCCCCGTGGATGAACTGGACAAGTGTGCCA	240
Mouse	CTGCTACTGTGGCTTGGGGGGCTGGGGCACCCCAGTGGACGACTTAGACAGGTGTGCCA	224
Rat	CTGCTACTGTGGCTTGGGGGGCTCAGGCACCCCAGTGGACGACTTAGACAGGTGTGCCA	214
Psammomys	CTGCTACTGCGGCCTGGGGGGCGCAGGCACCCCAGTGGACGAATTAGACAGGTGTGCCA	127
	***** **	
Human	GACACATGACAAGTGTATGACCAGGCCAAGAAGCTGGACAGCTGTAAATTTCTGCTGGA	300
Mouse	GACTCATGACCACTGTACAGTCAGGCCAAGAAGCTGGAAAGCTGTAAATTCCTCATAGA	284
Rat	GACTCATGACCACTGTACAAATCAGGCCAAGAAGCTGGAAAGCTGTAAATTCCTCATCGA	274
Psammomys	GATCCATGACAATTGCTACACTAAGGCCAAGAGGCTGAAAAGCTGTAAATCCCTCCTGGA	187
	** *****	
Human	CAACCCGTACACCCACACCTATTCTACTCGTGCTCTGGCTCGGCAATCACCTGTAGCAG	360
Mouse	CAACCCCTACACCAACACTTACTCCTACTCATGCTCCGGGAGCGAGATCACCTGCAGCGC	344
Rat	CAACCCCTACACCAACACGTACTCATAAAGTGCTCCGGGAACGTGATCACCTGCAGCGA	334
Psammomys	CAACCCCTACACCCACTCATACTCGTACAAGTGCTCCGGGAATGAGATCATCTGTAGTGA	247
	***** **	
Human	CAAAAACAAGAGTGTGAGGCCTTCATTTGCAACTGCGACCGCAACGCTGCCATCTGCTT	420
Mouse	CAAAAACAACAAATGCGAGGACTTCATCTGCAACTGTGACCGTGAGGCCGCCATCTGCTT	404
Rat	CAAAAACAACGACTGTGAGAGCTTCATCTGCAACTGTGACCGGCAGGCCGCCATCTGTTT	394
Psammomys	CAAAAACAAGGAATGCGAGGCNTTCATCTGCAACTGTGACCG-----	289

Human	TTCAAAGCTCCATATAACAAGGCACACAAGAACCTGGACACCAAGAAAGTATTGTCAGAG	480
Mouse	CTCCAAGTCCCGTACAACAAGGAATACAAAACCTTGACACCGGGAAATTCCTGTTAGCC	464
Rat	CTCCAAGTCCCGTACAACAAGGAATACAAAGACCTTGACACCAAGAAACACTGTTAGGC	454
Psammomys	-----	
Human	TTGAATATCACCTCTCAAAGCATCACCTCTAT-----CTGCCTCATCTC-ACACTG	531
Mouse	TGTCACCTCACTTCCTGCCCACGCCGACCCCGCCACCTTGCTGTCTTATTTT-ACCCTG	523
Rat	TGTCACCCCACTTCCTGTCTATGCCGTCCCGCTCCCCTTGCTGTCTTATTTCTGCACCG	514
Psammomys	-----	
Human	TACTCTCCAATAAAGCACCTTGTTGAAAGAA	562
Mouse	CGCCCTCTAATAAAGTACCT-GCTGTCAGA-	552
Rat	CACCCTCTAATAAAGTACCA-GCAGAAAG--	542
Psammomys	-----	

FIGURE 5A

Human	MKLLVLAVLLTVAAADSGISPRAVWQFRMKIKCVIPGSDPFLEYNNYGCYCGLGGSCTPV	60
Mouse	MKLLLLAALLTAGAAHSISPRAVWQFRNMICKTIPGSDPLKDYNNGCYCGLGGWGTPV	60
Rat	MKLLLLAALLTAGVTAHSISTRVWQFRNMICKTIPGSDPLREYNNYGCYCGLGGSCTPV	60
Psammomys	MKLLLLAALLTAGVGAHSISTRVWQFGNMIKCAIPGSKPLKEYNNYGCYCGLGGAGTPV	60
	****:***.***... **.*:*****:****.***.*: :***** ****	
Human	DELDKCCQTHDNCYDQAKKLDSCFKLLDNPYTHYTSYSCSGSAITCSSKNKECEAFICNC	120
Mouse	DDLDRCCQTHDHCYSQAKKLESCFKLIDNPYTNNTYSYSCSGSEITCSAKNNKCEDFICNC	120
Rat	DDLDRCCQTHDHCYNQAKKLESCFKLIDNPYTNNTYSYKCSGNVITCSDKNNDCEAFICNC	120
Psammomys	DELDRCQIHDNCYTKAKRLKSKSLLDNPYTHSYSYKCSGNEIICS DNKECEAFICNC	120
	*:***:*** **.*: ** :*:*.*** *:*****:***.***. * ** *:*.** *****	
Human	DRNAAICFSKAPYNKAHKNLDTKKYCQS	148
Mouse	DREAAICFSKVPYNKEYKNLDTGKFC--	146
Rat	DRQAAICFSKVPYNKEYKDLDTKKHC--	146
Psammomys	DRAAAICFSKAPYNKQDKNLNTKKNC--	146
	** *****.* **.*:*: * *	

FIGURE 5B